

a positioner for positioning over the donor block a reference slide that includes at least one structure of interest, to align the at least one structure of interest in the reference slide with corresponding tissue specimen regions in the donor block.

27. (Twice Amended) The apparatus of claim 26, wherein the recipient block holder comprises an x-y positioning device that can be incrementally moved to align sequential receptacles and the reciprocating punch.

28. (Amended) The apparatus of claim 26, further comprising a stylet positioned for introduction into the reciprocating punch to expel the tissue specimen from the punch into one of the receptacles aligned with the punch.

30. (Twice Amended) The apparatus of claim 26, further comprising a second reciprocating punch capable of being positioned relative to the recipient block for punching the array of receptacles in the recipient block, wherein the second reciprocating punch is different than the reciprocating punch positioned to punch the specimen from the tissue donor block.

31. (Twice Amended) An apparatus for preparing specimens for parallel analysis of sections of biological material arrays, comprising:

- a donor block holder for holding a tissue donor block in a donor position; and
- a reciprocating punch positioned in relation to the holder to punch a tissue specimen from the tissue donor block when the donor block is in the donor position; and
- a recipient block holder for holding a recipient block in a recipient position, wherein the recipient block comprises an array of receptacles, each of which is positionable in a preselected position in relation to the reciprocating punch to deliver a tissue specimen from the reciprocating punch into a receptacle in the preselected position; and
- a recorder for recording coordinate positions of the receptacles in the recipient block.

34. (Twice Amended) An apparatus for preparing specimens for parallel analysis of sections of biological material arrays, comprising:

- a donor block holder for holding a tissue donor block in a donor position; and
- a reciprocating punch positioned in relation to the holder to punch a tissue specimen from the tissue donor block when the donor block is in the donor position; and

a recipient block holder for holding a recipient block in a recipient position, wherein the recipient block comprises an array of receptacles, each of which is positionable in a preselected position in relation to the reciprocating punch to deliver a tissue specimen from the reciprocating punch into a receptacle in the preselected position; and

a sectioning device for sectioning the recipient block into sections that can be subjected to different analyses.

54. (Amended) An apparatus for preparing specimens for parallel analysis of sections of biological material arrays, comprising:

a donor block holder for holding a tissue donor block in a donor position; and

a reciprocating punch positioned in relation to the holder to punch a tissue specimen from the tissue donor block when the donor block is in the donor position; and

a recipient block holder for holding a recipient block in a recipient position, wherein the recipient block comprises an array of receptacles, each of which is positionable in a preselected position in relation to the reciprocating punch to deliver a tissue specimen from the reciprocating punch into a receptacle in the preselected position; and

a reference slide positioner that includes at least one slide that extends between opposing walls of the donor block holder.

55. (Amended) A device for preparing biological material arrays, comprising:

a platform that includes at least one guide for positioning a tissue donor block holder or a recipient block holder; and

a punch apparatus that includes a guide surface, a punch base slidably mounted on the guide surface, and a punch received within the punch base that can be aligned with the tissue block holder or the recipient block holder; and

a reference slide positioner interposed between the platform and the punch apparatus.

59. (Amended) An integrated apparatus for preparing specimens for parallel analysis of sections of biological material arrays, comprising:

a donor block holder that can hold a tissue donor block in a donor position;

a reciprocal punch positioned in relation to the donor block holder that can punch a tissue specimen from the tissue donor block when the donor block is in the donor position;

a recipient block holder that can hold a recipient block in a recipient position, wherein the recipient block comprises an array or receptacles, each of which is positionable in a preselected position

in relation to the reciprocal punch to deliver a tissue specimen from the reciprocal punch into a receptacle in the preselected position; and

a positioner that can position over the donor block a reference slide that includes at least one structure of interest, to align the at least one structure of interest in the reference slide with corresponding tissue specimen regions in the donor block.

62. (Amended) The apparatus of claim 30, wherein the diameter of the reciprocating punch positioned to punch the specimen from the tissue donor block is greater than the diameter of the second reciprocating punch.

Please add the following claims:

67. (New) The apparatus of claim 31, further comprising a second reciprocating punch capable of being positioned relative to the recipient block for punching the array of receptacles in the recipient block, wherein the second reciprocating punch is different than the reciprocating punch positioned to punch the specimen from the tissue donor block.

68. (New) The apparatus of claim 34, further comprising a second reciprocating punch capable of being positioned relative to the recipient block for punching the array of receptacles in the recipient block, wherein the second reciprocating punch is different than the reciprocating punch positioned to punch the specimen from the tissue donor block.

69. (New) The apparatus of claim 67, wherein the diameter of the reciprocating punch positioned to punch the specimen from the tissue donor block is greater than the diameter of the second reciprocating punch.

70. (New) The apparatus of claim 68, wherein the diameter of the reciprocating punch positioned to punch the specimen from the tissue donor block is greater than the diameter of the second reciprocating punch.

71. (New) The apparatus of claim 26, further comprising a microscope configured for observing the reference slide.